



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

1642 \$

Applicant: P. A. Billing-Medel, *et al.*

Serial No.: 09/049,695

Filed: March 27, 1998

For: REAGENTS AND METHODS
USEFUL FOR DETECTING
DISEASES OF THE
GASTROINTESTINAL TRACT

Examiner: K. Canella

Group Art Unit: 1642

Case No.: 6066.US.P1

Date: March 20, 2002

**Certificate of Mailing under 37 CFR
§1.8(a):**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as First Class Mail addressed to:

Assistant Commissioner for Patents
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Date of Deposit: March 21, 2002

Wanda E. Smith
Wanda E. Smith

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TECH CENTER 1600/2900

Assistant Commissioner for Patents
Box Fee Amendment
Washington, D.C. 20231

Dear Sir:

Enclosed herewith is an Amendment and Response with Exhibit for Patricia A. Billing, *et al.*, for REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT, the specification of which was filed on March 27, 1998, and received Serial No. 09/049,695.

Also enclosed are: Request for Extension of Time
Return-receipt postcard.

The Commissioner is hereby authorized to charge any additional Filing Fees required under 37 CFR 1.16, as well as any patent application processing fees under 37 CFR 1.17 associated with this communication for which full payment has not been tendered, to Deposit Account No. 01-0025. A duplicate copy of this sheet is enclosed.



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Respectfully submitted,
P. A. Billing-Medel, *et al.*

Mimi C. Goller

Mimi C. Goller
Registration No. 39,046
Attorney for Applicants



Exhibit A

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: DNA
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

```
GGATCAGCCA CTGCAGCTCC CTGAGCACTC TCTACAGAGA CGCGGACCCC AGACATGAGG 60
AGGCTCCTCC TGGTCACCAG CCTGGTGGTT GTGCTGCTGT GGGAGGCAGG TGCAGTCCCA 120
GCACCCAAGG TCCCTATCAA GATGCAAGTC AAACACTGGC CCTCAGAGCA GGACCCAGAG 180
AAGGCCTGGG GCGCCCGTGT GGTGGAGCCT CCGGAGAAGG ACGACCAGCT GGTGGTGCTG 240
TTCCCTGTC 249
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```
GGATCAGCCA CTGCAGCTCC CTGAGCACTC TCTACAGAGA CGCGGACCCC AGACATGAGG 60
AGGCTCCTCC TGGTCACCAG CCTGGTGGTT GTGCTGCTGT GGGAGGCAGG TGCAGTCCCA 120
GCACCCAAGG TCCCTATCAA GATGCAAGTC AAACACTGGC CCTCAGAGCA GGACCCAGAG 180
AAGGCCTGGG GCGCCCGTGT GGTGGAGCCT CCGGAGAAGG ACGACCAGCT GGTGGTGCTG 240
TTCCCTGTC 249
```

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: DNA
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24

```
GGCAGGTGCA GTCCCAGCAC CCAAGGTCCC TATCAAGATG CAAGTCAAAC ACTGGCCCTC 60
AGAGCAGGAC CCAGAGAAGG CCTGGGGCGC CCGTGTGGTG GAGCCTCCGG AGAAGGACGA 120
CCAGCTGGTG GTGCTGTTCC CTGTCCAGAA GCCGAAACTC TTGACCACCG AGGAGAAGCC 180
ACGAGGTCAG GGCAGGGGCC CCATCCTTCC AGGCACCAAG GCCTGGATGG AGACCGAGGA 240
CACCTGGGC CGTGTCTCTGA GTCCCGAGCC CGACCATGAC AGCCTGTACC ACCCTCCGCC 300
TGAGGAGGAC CAGGGCGAGG AGAGGCCCCG GTTGTG 336
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

```
GGCAGGTGCA GTCCCAGCAC CCAAGGTCCC TATCAAGATG CAAGTCAAAC ACTGGCCCTC 60
AGAGCAGGAC CCAGAGAAGG CCTGGGGCGC CCGTGTGGTG GAGCCTCCGG AGAAGGACGA 120
CCAGCTGGTG GTGCTGTTCC CTGTCCAGAA GCCGAAACTC TTGACCACCG AGGAGAAGCC 180
ACGAGGTCAG GGCAGGGGCC CCATCCTTCC AGGCACCAAG GCCTGGATGG AGACCGAGGA 240
CACCTGGGC CGTGTCTCTGA GTCCCGAGCC CGACCATGAC AGCCTGTACC ACCCTCCGCC 300
TGAGGAGGAC CAGGGCGAGG AGAGGCCCCG GTTGTG 336
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